B2

19. (Amended) The method of claim 14 wherein said mismatch repair gene comprises a truncation mutation at codon 134 as shown in SEQ ID NO:1.

B3

29. (Amended) The hypermutable, nonhuman, transgenic mammal of claim 60 comprising a protein which consists of the first 133 amino acids of human PMS2.

52. (Amended) The hypermutable, non-human transgenic mammal of claim 61 wherein the mismatch repair gene is *PMS2*.

B4

53. (Amended) The hypermutable, non-human transgenic mammal of claim 61 wherein the mismatch repair gene is human *PMS2*.

58. (Amended) The hypermutable, non-human transgenic mammal of claim 61 wherein the dominant negative allele comprises a truncation mutation at codon 134 as shown in SEQ ID NO:1.

B5

59. (Amended) The hypermutable, non-human transgenic mammal of claim 58 wherein the truncation mutation is a thymidine at nucleotide 424 of wild-type *PMS2* as shown in SEQ ID NO:1.